## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE     |  |  |  |
|---------------------------|----------|--------|----------|--|--|--|
| FEE DETERMINATION         |          |        |          |  |  |  |
| O.I.P.E. CLASSIFIER       | 2        | 32     | 8114     |  |  |  |
| FORMALITY REVIEW          | lit      | 907    | 13-01-01 |  |  |  |
| RESPONSE FORMALITY REVIEW | 701      | 825    | 6115/01  |  |  |  |
|                           |          | 0.17   | 7        |  |  |  |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

|       |          | 1             | ;        |            | •           | ÷        |           |              |          |          |          |       | F        | lest     | rict     | ed       |          |          |          | _            |                 |          |              |              |
|-------|----------|---------------|----------|------------|-------------|----------|-----------|--------------|----------|----------|----------|-------|----------|----------|----------|----------|----------|----------|----------|--------------|-----------------|----------|--------------|--------------|
| Cla   | im       | m Date        |          |            |             |          |           |              |          |          |          | Claim |          |          |          |          |          | Date     |          |              |                 |          |              |              |
| Final | Original | 7/6/04        | -        |            |             |          |           |              |          |          |          |       | Final    | Original |          |          |          |          |          |              |                 |          |              |              |
|       | 1)       | V             |          |            |             |          |           |              |          |          |          | Į     |          | 51       |          | $\Box$   |          |          |          |              |                 |          |              |              |
|       | )∾(      | Ш             |          | _          | _           | _        | _         |              |          | _        | ᆜ        | ļ     |          | 52       |          |          |          | _        | _        |              |                 | $\dashv$ | 4            | 4            |
|       | 3        |               | $\perp$  |            |             |          |           |              |          |          |          |       |          | 53       |          |          |          |          | $\perp$  |              |                 | _        | _            |              |
|       | 4        | $\Box$        |          |            | _           | $\Box$   | _         | _            | _        | _        | _        |       |          | 54       | _        |          | _        | _        | _        | _            | _               | _        | _            |              |
|       | 5        | $\rightarrow$ |          | _          | 4           | _        | _         | _            | 4        | _        | _        |       |          | 55       |          |          |          |          | _        | _            | _               | _        |              | 4            |
| _,    | ٤        | $\perp$       |          | $\dashv$   |             | _        |           | -            | -        | -        |          |       |          | 56       |          | $\vdash$ |          |          |          |              |                 | 1        |              |              |
| _     | 7)       | Н             |          |            | _           | _        | _         |              |          | 4        | _        |       |          | 57<br>58 | _        | $\vdash$ | $\dashv$ | -        | -        | _            | -               | $\dashv$ | ┥            | $\dashv$     |
| _     | न        | Н             |          | _          | $\dashv$    | -        | ᅱ         | -            |          | -        | $\dashv$ |       |          | 59       | _        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -            | $\dashv$        | -        | -            | $\dashv$     |
| -{    | 58       | Н             |          |            | $\vdash$    | -1       |           | $\dashv$     | $\dashv$ | $\dashv$ | $\dashv$ |       |          | 60       | -        | Н        | $\dashv$ | $\dashv$ | $\dashv$ | -            | -               | $\dashv$ | $\dashv$     | $\dashv$     |
|       | 10       | H             | H        | $\vdash$   | $\dashv$    | -        |           | -            | -        | -        |          |       |          | 61       |          | ┝╌┥      |          |          | -        | -            | -               |          | -            | $\dashv$     |
|       | 느        | i f           | Н        | $\vdash$   | Н           | -        | $\dashv$  | -            | $\dashv$ | $\dashv$ |          |       | _        | 62       |          | H        | $\dashv$ | -        | $\dashv$ |              | $\dashv$        | $\dashv$ | -            | $\dashv$     |
|       | 13       | Η             | $\vdash$ | $\vdash$   | H           |          | Н         | $\dashv$     | $\dashv$ | -        | $\dashv$ |       |          | 63       |          | $\vdash$ |          | $\dashv$ | $\dashv$ |              | $\vdash$        | $\dashv$ |              | $\dashv$     |
| -     | 14       | ┢             | H        | $\vdash$   | Н           |          |           | $\dashv$     | $\dashv$ | -        | $\dashv$ |       | $\vdash$ | 64       | -        | $\vdash$ | ᅱ        | -        | $\dashv$ |              | $\vdash \vdash$ | $\dashv$ |              | ᅥ            |
| _     | 15       |               |          | Н          | Н           | $\dashv$ | $\vdash$  | $\dashv$     | -        |          | ᅱ        |       | _        | 65       |          |          |          | $\neg$   |          |              | H               |          | $\dashv$     |              |
| _     | 16       | T             | Г        | П          | П           | П        | $\exists$ | $\exists$    |          |          | $\neg$   |       |          | 66       |          | П        | Ħ        | T        |          |              | П               | T        | Ħ            | $\dashv$     |
|       | 17       | Г             |          | П          |             |          |           |              |          | $\neg$   | П        |       |          | 67       |          | П        |          |          |          |              | П               |          |              |              |
|       | 18       |               |          |            | Г           |          |           |              |          |          |          |       | Г        | 68       |          | П        |          |          |          |              | П               |          |              |              |
|       | 19       | ٠             |          |            |             |          |           |              |          |          | П        |       |          | 69       |          | П        |          |          |          |              | П               |          |              |              |
|       | 20       | 1             |          |            |             |          |           |              |          |          |          |       |          | 70       |          | П        |          |          |          |              |                 |          |              |              |
|       | 21       |               | Г        |            |             |          |           |              |          |          |          |       | -        | 71       |          |          |          |          |          |              |                 |          |              |              |
|       | 22       | T             |          | П          |             |          |           |              |          |          |          |       |          | 72       |          | П        |          |          |          |              | П               |          |              |              |
|       | 23       | П             |          |            |             |          |           |              |          |          |          |       |          | 73       |          |          |          |          |          |              |                 |          |              |              |
|       | 24       |               |          |            |             |          |           |              |          |          |          |       |          | 74       |          |          |          |          |          |              |                 |          |              |              |
|       | 25       |               |          |            |             |          |           |              |          |          |          |       |          | 75       |          |          |          |          |          |              |                 |          | ٠.           |              |
|       | 26       |               |          |            |             |          |           |              |          |          |          |       |          | 76       |          |          |          |          |          |              |                 |          |              |              |
|       | 27       | L             |          | Ĺ          |             |          |           |              |          |          |          |       | 匚        | 77       |          |          |          |          |          | L            |                 | <u> </u> | L_           |              |
|       | 28       | L             | L        | L          | L           | L        | L         |              |          |          |          |       | 匚        | 78       |          |          |          |          |          | _            | L_              | _        | ļ            |              |
|       | 29       | ╙             | _        | lacksquare |             |          |           |              |          |          |          |       | L        | 79       |          |          | _        |          |          | _            | L               | <u> </u> | _            | Щ            |
|       | 30       | <u> </u>      | ļ        | L          | <u> </u>    | <u> </u> |           |              | _        |          | Ш        | ļ     | <u></u>  | 80       | L        | L        | _        |          |          |              |                 |          | L            |              |
|       | 31       | ┡             | <u> </u> | <u> </u>   | _           | _        | <u> </u>  |              |          |          |          |       | ⊢        | 81       |          | L        |          |          | -        | ļ            | <u> </u>        | _        | ┡            |              |
|       | 32       |               | ├-       | <u> </u>   | <u> </u>    | ⊨        | <u> </u>  | <u> </u>     |          | L        | -        |       | <u> </u> | 82       | -        | <u> </u> | <u> </u> | ├—       | _        | $\vdash$     | $\vdash$        | H        | $\vdash$     | $\vdash$     |
|       | 33       |               | $\vdash$ | _          | $\vdash$    | $\vdash$ | $\vdash$  | H            | <u> </u> | Н        | <u> </u> | l     | L        | 83       | -        |          | -        | <u> </u> | $\vdash$ | <del> </del> | $\vdash$        | $\vdash$ | $\vdash$     | $\vdash$     |
|       | 34<br>35 |               | $\vdash$ | $\vdash$   | $\vdash$    | ⊢        | _         | <del> </del> | _        | $\vdash$ | ⊢        |       | $\vdash$ | 85       | -        | $\vdash$ | -        | -        | $\vdash$ | $\vdash$     | $\vdash$        | $\vdash$ | -            | H            |
|       | 35       |               | $\vdash$ | $\vdash$   | -           | $\vdash$ | _         | <del> </del> | $\vdash$ | -        | -        | l     | $\vdash$ | 86       | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | ⊢            | -               | $\vdash$ | $\vdash$     | -            |
| -     | 37       |               | -        | ⊢          | -           | ├        | $\vdash$  | -            | $\vdash$ | H        | $\vdash$ | 1     | $\vdash$ | 87       | $\vdash$ | $\vdash$ |          | ⊢        | -        | $\vdash$     | ╁               | -        | -            | -            |
|       | 38       |               | ╁        | $\vdash$   | $\vdash$    | $\vdash$ | $\vdash$  | $\vdash$     | $\vdash$ | $\vdash$ | -        | ł     | $\vdash$ | 88       | $\vdash$ | -        | -        | -        | $\vdash$ | ┢            | ┼               | ├        | $\vdash$     | $\vdash$     |
|       | 39       | $\vdash$      | ╁        | -          | ┝           | $\vdash$ | -         | <del> </del> | -        | -        | ┢        | ł     | -        | 89       | -        | H        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$        | $\vdash$ | $\vdash$     | $\vdash$     |
|       | 40       | _             | i        | $\vdash$   | $\vdash$    | ┢        | ┢         | -            | $\vdash$ | $\vdash$ | $\vdash$ | 1     | $\vdash$ | 90       | $\vdash$ | +        | $\vdash$ | $\vdash$ | _        | -            | +-              | $\vdash$ | $\vdash$     | -            |
|       | 41       | 1             | -        | ┢          | $\vdash$    | $\vdash$ | -         | -            | -        | $\vdash$ | -        | ł     | H        | 91       | $\vdash$ | ╁╌       | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | +               | $\vdash$ | <del> </del> | $\vdash$     |
| _     | 42       | +             |          | $\vdash$   | $\vdash$    | ├-       | -         | -            | $\vdash$ | $\vdash$ | -        | {     | $\vdash$ | 92       |          | ╁        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$        | $\vdash$ | $\vdash$     | <del> </del> |
|       | 42       |               | ╀        | ⊢          | ⊢           | ├        | $\vdash$  | ⊢            | -        | ⊢        | ⊢        | 1     | H        | 93       | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | +               | ╁        | ╁            | +            |
| -     | 44       | _             | +-       | -          | ╀           | $\vdash$ | ┢         | -            | -        | -        | $\vdash$ | 1     | $\vdash$ | 94       | $\vdash$ | $\vdash$ | $\vdash$ |          | H        | $\vdash$     | +-              | $\vdash$ | +            | -            |
| -     | 45       |               | ╁        | $\vdash$   | $\vdash$    | H        | $\vdash$  | $\vdash$     | $\vdash$ | ┝        | -        | ł     | $\vdash$ | 95       | $\vdash$ | +-       | -        | ├        | $\vdash$ | ╁            | +               | +        | ╁            | $\vdash$     |
|       | 46       | _             | H        | 1          | ╁           | $\vdash$ | ╁         | $\vdash$     | $\vdash$ | +        | $\vdash$ | ł     | $\vdash$ | 96       | $\vdash$ | +        | $\vdash$ | $\vdash$ | $\vdash$ | +            | +               | $\vdash$ | $\vdash$     | -            |
|       | 47       |               | H        | -          | $\vdash$    | $\vdash$ | $\vdash$  | $\vdash$     | -        |          | -        | 1     | -        | 97       | +-       | +        | $\vdash$ | $\vdash$ | $\vdash$ | +            | $\vdash$        | t        | t            | <del> </del> |
|       | 48       |               | $\vdash$ | ┢          | ╁           | $\vdash$ | ╁         | $\vdash$     | -        | $\vdash$ | $\vdash$ | 1     | 1        | 98       | $\vdash$ | +        | H        | $\vdash$ | $\vdash$ | +            | +               | t        | H            | †            |
|       | 49       |               | ┢        | $\vdash$   | ╁           | H        | $\vdash$  | $\vdash$     | -        | -        | $\vdash$ | 1     | $\vdash$ | 99       | _        | t        | $\vdash$ | t        | T        | t            | T               | +        | T            | †            |
| _     | 50       |               | T        | T          | $\vdash$    | t        | T         | $\vdash$     |          | $\vdash$ | $\vdash$ | 1     | $\vdash$ | 100      |          | 1        | T        | T        | $\vdash$ |              | +-              | t        | 1            |              |
| _     |          | _             |          |            | <del></del> |          |           | _            |          |          |          | -     | _        | _        |          |          | _        |          | _        | _            | _               |          | _            |              |

| Cla      | im       |          |              |    |          |    | Dat      | e            |   |          |           |            |          |
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| Final    | ō        |          |              |    | -        |    |          | İ            | ı |          | ١         |            |          |
| $\vdash$ | 101      |          |              | Г  | 7        |    |          | Т            | t | 1        | $\dashv$  | $\neg$     |          |
| ┢        | 102      | $\dashv$ |              | H  | 1        |    |          | Н            | t | +        | ┪         | ┪          |          |
| ┢        | 103      |          |              | H  | +        |    |          | H            | t | 1        | $\exists$ | ┪          |          |
| ┢        | 104      | -        | -            | ┝  | +        |    |          | ┝            | ╁ | $\dashv$ | $\dashv$  | $\dashv$   | _        |
| ⊢        | 105      | -        |              | ┝  | 7        | _  | -        | ┢            | + | ┪        | -         | -          |          |
| 1        | 106      |          |              | H  | 7        |    | $\vdash$ | Н            | t | +        | ╛         | _          |          |
|          | 107      | $\dashv$ |              | H  | +        | -  |          | H            | t | +        |           |            |          |
| H        | 108      | $\dashv$ |              | H  | +        | -  | $\vdash$ | 1            | + | -        | _         |            |          |
| ┢        | 109      | Н        |              | H  | ┪        | _  | $\vdash$ | H            | + | +        | $\dashv$  |            | ~-       |
|          | 110      |          | _            | ۲  | +        |    | -        | ╁╌           | ╁ | $\dashv$ | -         | -          |          |
|          | 111      | Н        |              | ┝  | ┪        |    | $\vdash$ | ⊢            | + | ┪        |           |            | Н        |
| 一        | 112      | -        |              | ┝  | ┪        |    | -        | ╁╾           | ╁ | ┪        | _         | _          | H        |
| $\vdash$ | 113      | H        |              | ۲  | ┥        |    | $\vdash$ | H            | + | -        |           | Н          | $\vdash$ |
| $\vdash$ | _        |          |              | H  | ┥        |    | $\vdash$ | $\vdash$     | + | +        |           | -          | $\vdash$ |
| $\vdash$ | 114      |          | -            | H  | -1       |    | $\vdash$ | $\vdash$     | + | -        |           | _          | $\vdash$ |
| ┝        | 116      |          | -            | H  | $\dashv$ |    | ⊢        | ╁            | ╀ | ᅱ        |           | $\vdash$   | $\vdash$ |
| -        | 117      | _        |              | ╀  | 4        | _  | ╁        | ⊢            | + | $\dashv$ |           | $\vdash$   | ┝        |
| $\vdash$ | 118      |          | ┝            | ╀  | $\dashv$ |    |          | ⊢            | + | ┥        | _         | ├          | -        |
| $\vdash$ | 119      |          | ⊢            | ╀  | -        |    | ⊢        | ╁╌           | + | ᅱ        |           | -          | ⊢        |
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| <u></u>  | 120      |          |              | Ļ  | _        |    | L.       | <u> </u>     | 1 |          |           | <u> </u>   | L        |
| $\vdash$ | 121      | _        |              | Ļ  |          |    | ┖        | Ļ            | 1 |          |           | <u> </u>   | L        |
| $\vdash$ | 122      |          | _            | Ļ  |          |    | _        | 1            | ↓ |          |           | _          | L        |
| L        | 123      |          | L            | Ļ  |          | _  | ┡        | ╀            | 4 |          |           | L          | L        |
|          | 124      |          |              | L  |          |    |          | L            | 4 | _        |           | 1_         | L        |
|          | 125      |          | L            | ╀  |          | _  | ١        | ↓            | 4 |          |           | L          | L        |
| _        | 126      | +-       | <u>_</u>     | ļ  | _        | _  | ╙        | ╄            | 4 |          |           | ┖          | L        |
| <u>_</u> | 127      |          | ļ            | ļ  |          | _  | Ļ        | ╄            | 4 |          |           | <u>.</u>   | _        |
| <u>_</u> | 128      | -        | L            | ļ  |          | _  | ╙        | $\downarrow$ | 4 |          |           | <u>Ļ</u> . | L        |
| $\perp$  | 129      | -        | L            | ļ  |          | L  | ┺        | Ļ            | 4 | _        |           | L          | Ļ        |
| L        | 130      |          |              | L  |          | L  | ļ.,      | $\perp$      | ↓ |          | L         | L          | L        |
| _        | 13       |          |              | 1  |          |    | L        | $\perp$      | 1 |          |           | _          | L        |
| $\perp$  | 132      | -        | L            | 1  |          |    | L        | $\perp$      | 1 |          |           | L          |          |
| L        | 133      |          | L            | 1  |          | L  | L        | $\perp$      | 1 |          | _         | ┖          | L        |
| L        | 13       | -        |              | 1  |          | L  | 1_       | ┸            | 4 |          | L         | ┖          | L        |
| L        | 13       | _        | L            | 1  |          | L  | L        | L            | 1 |          |           |            | L        |
| $\perp$  | 130      | _        | L            | ļ  |          | L  | 上        | $\perp$      | 1 |          | <u> </u>  | 1          | L        |
| $\perp$  | 137      | -        | L            | 1  |          | L  | 1        | 1            | 4 |          | _         | $\perp$    | $\perp$  |
| L        | 138      | _        | 1            | 1  |          |    | L        | ļ            | _ |          | L         | L          | Ļ        |
| L        | 139      |          | $\perp$      | 1  |          | L  | L        | $\perp$      | _ |          | L         | L          | L        |
| L        | 140      |          | L            |    |          | L  |          | $\perp$      |   |          | L         |            | L        |
| Γ        | 14       |          |              | T  |          |    | Γ        | Γ            | T |          |           | Γ          | Γ        |
| Г        | 14       | 2        | Γ            | 1  | _        | Γ  | Τ        | T            | 7 |          |           | Г          | Τ        |
|          | 14       |          |              | J  |          |    | Γ        |              |   |          |           |            |          |
|          | 14       | 4        | Т            | 1  | _        | Γ  | T        | T            | ٦ |          | Γ         | Τ          | Τ        |
|          | 14       | 5        | T            | 1  |          |    | T        | T            | ┪ |          | Τ         | T          | T        |
| Г        | 14       |          | Τ            | 7  | _        | Τ  | T        | T            | ٦ | _        | Γ         | 1          | T        |
|          | 14       |          | 1            | 1  | _        | T  | T        | 1            | 7 |          | T         | T          | T        |
|          | 14       |          | †            | 1  |          | T  | T        | T            | ┪ |          | T         | T          | T        |
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## Best Available Copy